

AMAÇ :

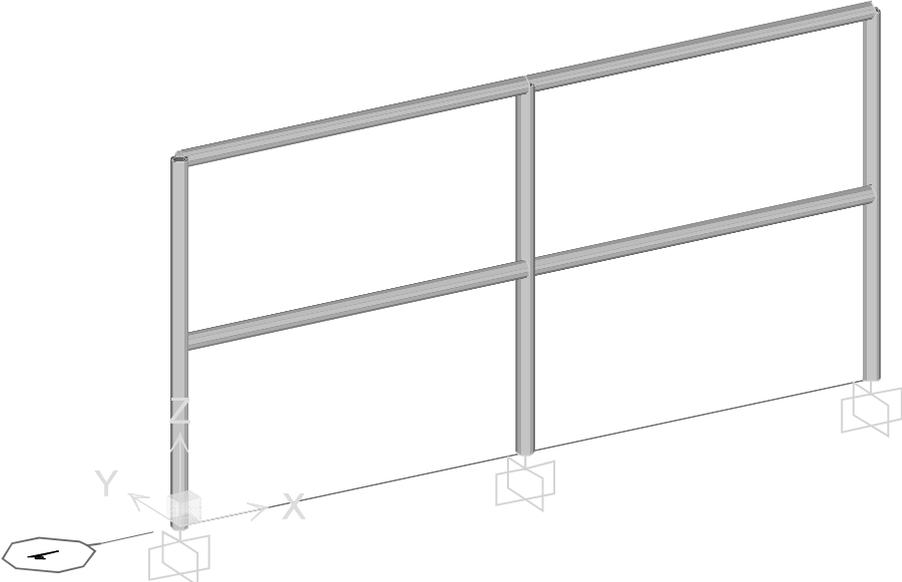
Bu statik analiz; 110cm yüksekliğinde ve 110cm arayla dikmeleri olan Ø50 çapında t:5mm et kalınlığında profil borulardan yapılmış platform korkuluğunun en üst kotta farklı noktalarına 125kgf uygulanması neticesinde eleman bazında dayanımlarının yeterliliğini kontrol etmek için yapılmıştır.

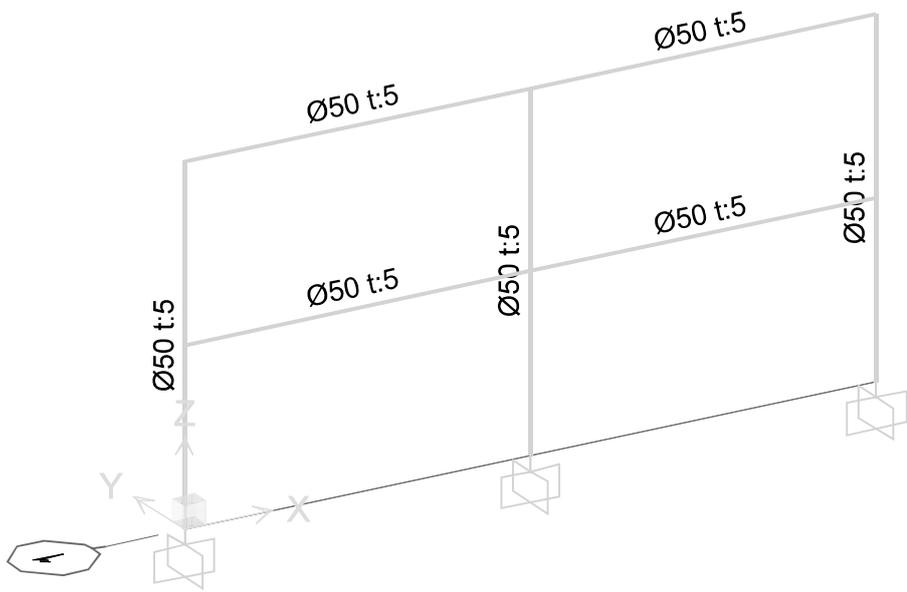
YÜKLER :

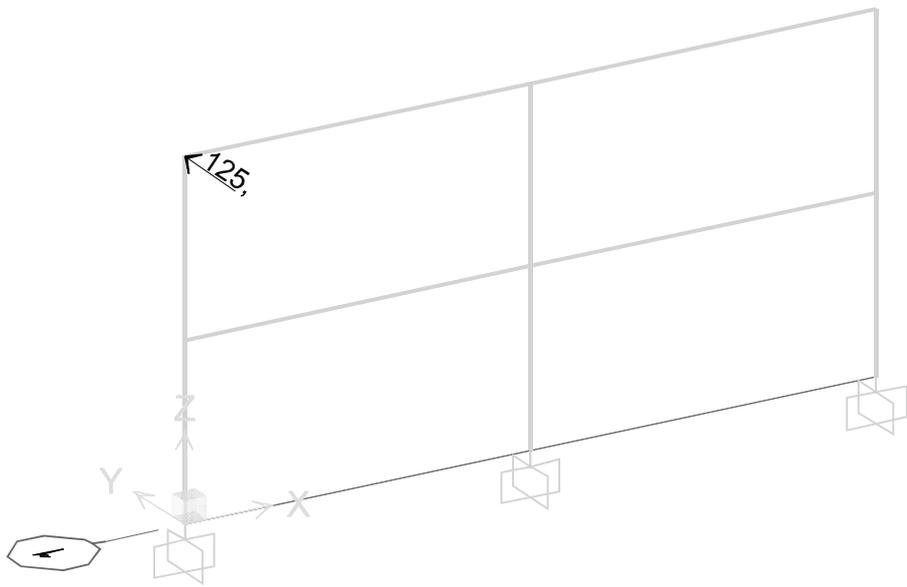
Korkuluğun en elveriş görülen noktalarına h=110cm den 125kg yük SAP2000 üzerinde Q1, Q2, Q3 yükü olarak tanımlanmıştır.

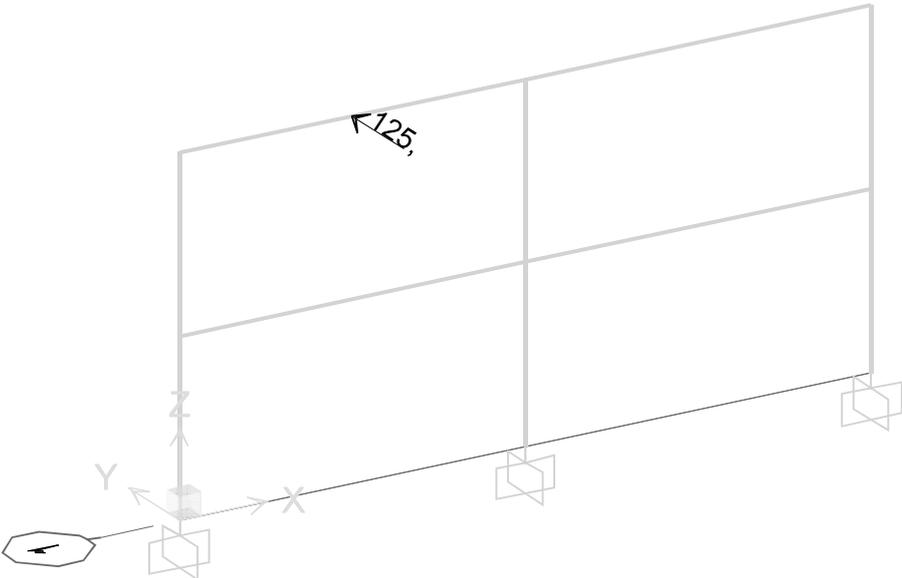
SONUÇ :

Uygulanan yükler neticesinde platform korkuluğunun elemanlarının **125kgf yüke dayanımlı olduğu görülmüştür.** Uygulanan kuvvetlere göre elemanların dayanımları ve SAP2000 analiz verileri raporun devamında paylaşılmıştır.









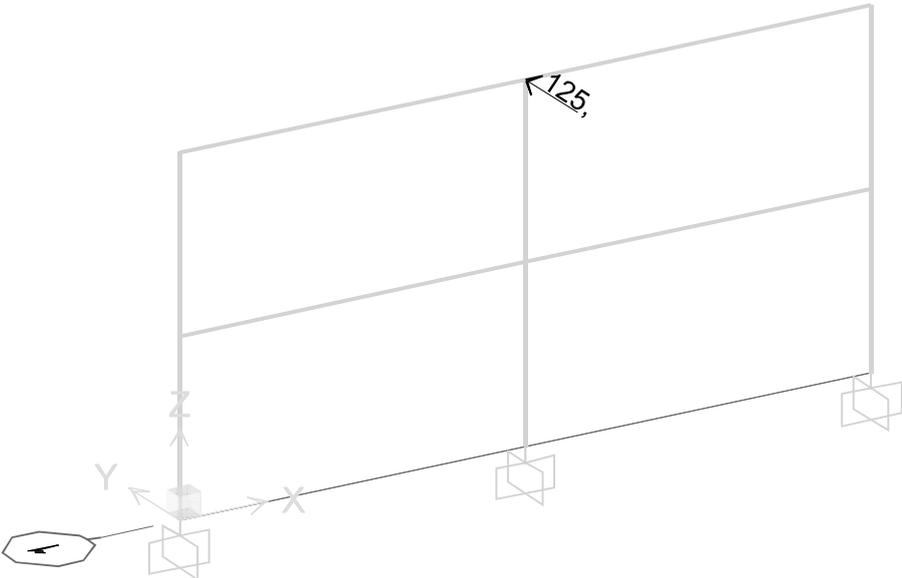




Table: Analysis Options

Table: Analysis Options

Solver	SolverProc	Force32Bit	StiffCase	GeomMod	HingeOpt
Advanced	Auto	No	None	None	In Elements

Table: Combination Definitions, Part 1 of 3

Table: Combination Definitions, Part 1 of 3

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor	SteelDesign
OLUYUK	Linear Add	No	Linear Static	DEAD	1,	Strength
SB	Linear Add	No	Linear Static	DEAD	1,	Strength
SB			Linear Static	G	1,	
SBQ1	Linear Add	No	Response Combo	SB	1,	Strength
SBQ1			Linear Static	Q1	1,	
SBQ2	Linear Add	No	Response Combo	SB	1,	Strength
SBQ2			Linear Static	Q2	1,	
SBQ3	Linear Add	No	Response Combo	SB	1,	Strength
SBQ3			Linear Static	Q3	1,	

Table: Combination Definitions, Part 2 of 3

Table: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign
OLUYUK	DEAD	None	None	None
SB	DEAD	None	None	None
SB	G			
SBQ1	SB	None	None	None
SBQ1	Q1			
SBQ2	SB	None	None	None
SBQ2	Q2			
SBQ3	SB	None	None	None
SBQ3	Q3			

Table: Combination Definitions, Part 3 of 3

Table: Combination Definitions, Part 3 of 3

ComboName	CaseName	GUID	Notes
OLUYUK	DEAD		
SB	DEAD		
SB	G		
SBQ1	SB		
SBQ1	Q1		
SBQ2	SB		
SBQ2	Q2		
SBQ3	SB		
SBQ3	Q3		

Table: Element Forces - Frames, Part 1 of 2

Table: Element Forces - Frames, Part 1 of 2

Frame	Station cm	OutputCase	CaseType	P Kgf	V2 Kgf	V3 Kgf	T Kgf-cm	M2 Kgf-cm
1	0,	DEAD	LinStatic	-11,88	-0,46	0,	0,	0,
1	55,	DEAD	LinStatic	-8,83	-0,46	0,	0,	0,
1	55,	DEAD	LinStatic	-5,89	-1,29	0,	0,	0,
1	110,	DEAD	LinStatic	-2,83	-1,29	0,	0,	0,
1	0,	G	LinStatic	0,	0,	0,	0,	0,
1	55,	G	LinStatic	0,	0,	0,	0,	0,
1	55,	G	LinStatic	0,	0,	0,	0,	0,
1	110,	G	LinStatic	0,	0,	0,	0,	0,
1	0,	Q1	LinStatic	0,	0,	102,85	-845,11	8826,98
1	55,	Q1	LinStatic	0,	0,	102,85	-845,11	3170,25
1	55,	Q1	LinStatic	0,	0,	101,8	-1059,18	4312,15
1	110,	Q1	LinStatic	0,	0,	101,8	-1059,18	-1286,88
1	0,	Q2	LinStatic	0,	0,	61,73	127,24	6153,89
1	55,	Q2	LinStatic	0,	0,	61,73	127,24	2758,79
1	55,	Q2	LinStatic	0,	0,	60,29	407,44	2998,41
1	110,	Q2	LinStatic	0,	0,	60,29	407,44	-317,5
1	0,	Q3	LinStatic	0,	0,	28,	501,57	3799,65
1	55,	Q3	LinStatic	0,	0,	28,	501,57	2259,67
1	55,	Q3	LinStatic	0,	0,	23,76	594,41	1789,09
1	110,	Q3	LinStatic	0,	0,	23,76	594,41	482,29
1	0,	OLUYUK	Combination	-11,88	-0,46	0,	0,	0,
1	55,	OLUYUK	Combination	-8,83	-0,46	0,	0,	0,
1	55,	OLUYUK	Combination	-5,89	-1,29	0,	0,	0,
1	110,	OLUYUK	Combination	-2,83	-1,29	0,	0,	0,
2	0,	DEAD	LinStatic	-18,95	-1,575E-16	0,	0,	0,
2	55,	DEAD	LinStatic	-15,9	-1,575E-16	0,	0,	0,
2	55,	DEAD	LinStatic	-9,59	-3,055E-16	0,	0,	0,
2	110,	DEAD	LinStatic	-6,54	-3,055E-16	0,	0,	0,
2	0,	G	LinStatic	0,	0,	0,	0,	0,
2	55,	G	LinStatic	0,	0,	0,	0,	0,
2	55,	G	LinStatic	0,	0,	0,	0,	0,
2	110,	G	LinStatic	0,	0,	0,	0,	0,
2	0,	Q1	LinStatic	0,	0,	28,	-604,5	3799,65
2	55,	Q1	LinStatic	0,	0,	28,	-604,5	2259,67
2	55,	Q1	LinStatic	0,	0,	23,76	-966,29	1789,09
2	110,	Q1	LinStatic	0,	0,	23,76	-966,29	482,29
2	0,	Q2	LinStatic	0,	0,	56,97	-425,67	5399,89
2	55,	Q2	LinStatic	0,	0,	56,97	-425,67	2266,8
2	55,	Q2	LinStatic	0,	0,	57,66	-870,	2723,55
2	110,	Q2	LinStatic	0,	0,	57,66	-870,	-447,65
2	0,	Q3	LinStatic	0,	0,	69,	-3,329E-13	6150,7
2	55,	Q3	LinStatic	0,	0,	69,	-3,329E-13	2355,66
2	55,	Q3	LinStatic	0,	0,	77,48	-1,189E-12	3296,82
2	110,	Q3	LinStatic	0,	0,	77,48	-1,189E-12	-964,58
2	0,	OLUYUK	Combination	-18,95	-1,575E-16	0,	0,	0,
2	55,	OLUYUK	Combination	-15,9	-1,575E-16	0,	0,	0,
2	55,	OLUYUK	Combination	-9,59	-3,055E-16	0,	0,	0,
2	110,	OLUYUK	Combination	-6,54	-3,055E-16	0,	0,	0,
3	0,	DEAD	LinStatic	-11,88	0,46	0,	0,	0,
3	55,	DEAD	LinStatic	-8,83	0,46	0,	0,	0,
3	55,	DEAD	LinStatic	-5,89	1,29	0,	0,	0,
3	110,	DEAD	LinStatic	-2,83	1,29	0,	0,	0,

Table: Element Forces - Frames, Part 1 of 2

Frame	Station cm	OutputCase	CaseType	P Kgf	V2 Kgf	V3 Kgf	T Kgf-cm	M2 Kgf-cm
3	0,	G	LinStatic	0,	0,	0,	0,	0,
3	55,	G	LinStatic	0,	0,	0,	0,	0,
3	55,	G	LinStatic	0,	0,	0,	0,	0,
3	110,	G	LinStatic	0,	0,	0,	0,	0,
3	0,	Q1	LinStatic	0,	0,	-5,85	-343,53	1123,37
3	55,	Q1	LinStatic	0,	0,	-5,85	-343,53	1445,08
3	55,	Q1	LinStatic	0,	0,	-0,56	-464,77	773,76
3	110,	Q1	LinStatic	0,	0,	-0,56	-464,77	804,6
3	0,	Q2	LinStatic	0,	0,	6,31	-480,01	2196,22
3	55,	Q2	LinStatic	0,	0,	6,31	-480,01	1849,4
3	55,	Q2	LinStatic	0,	0,	7,05	-556,41	1153,04
3	110,	Q2	LinStatic	0,	0,	7,05	-556,41	765,15
3	0,	Q3	LinStatic	0,	0,	28,	-501,57	3799,65
3	55,	Q3	LinStatic	0,	0,	28,	-501,57	2259,67
3	55,	Q3	LinStatic	0,	0,	23,76	-594,41	1789,09
3	110,	Q3	LinStatic	0,	0,	23,76	-594,41	482,29
3	0,	OLUYUK	Combination	-11,88	0,46	0,	0,	0,
3	55,	OLUYUK	Combination	-8,83	0,46	0,	0,	0,
3	55,	OLUYUK	Combination	-5,89	1,29	0,	0,	0,
3	110,	OLUYUK	Combination	-2,83	1,29	0,	0,	0,
4	0,	DEAD	LinStatic	0,83	-2,95	0,	0,	0,
4	36,667	DEAD	LinStatic	0,83	-0,91	0,	0,	0,
4	73,333	DEAD	LinStatic	0,83	1,12	0,	0,	0,
4	110,	DEAD	LinStatic	0,83	3,16	0,	0,	0,
4	0,	G	LinStatic	0,	0,	0,	0,	0,
4	36,667	G	LinStatic	0,	0,	0,	0,	0,
4	73,333	G	LinStatic	0,	0,	0,	0,	0,
4	110,	G	LinStatic	0,	0,	0,	0,	0,
4	0,	Q1	LinStatic	0,	0,	-1,05	1141,9	-214,08
4	36,667	Q1	LinStatic	0,	0,	-1,05	1141,9	-175,62
4	73,333	Q1	LinStatic	0,	0,	-1,05	1141,9	-137,16
4	110,	Q1	LinStatic	0,	0,	-1,05	1141,9	-98,71
4	0,	Q2	LinStatic	0,	0,	-1,44	239,61	280,2
4	36,667	Q2	LinStatic	0,	0,	-1,44	239,61	332,99
4	73,333	Q2	LinStatic	0,	0,	-1,44	239,61	385,78
4	110,	Q2	LinStatic	0,	0,	-1,44	239,61	438,57
4	0,	Q3	LinStatic	0,	0,	-4,24	-470,58	92,84
4	36,667	Q3	LinStatic	0,	0,	-4,24	-470,58	248,29
4	73,333	Q3	LinStatic	0,	0,	-4,24	-470,58	403,75
4	110,	Q3	LinStatic	0,	0,	-4,24	-470,58	559,2
4	0,	OLUYUK	Combination	0,83	-2,95	0,	0,	0,
4	36,667	OLUYUK	Combination	0,83	-0,91	0,	0,	0,
4	73,333	OLUYUK	Combination	0,83	1,12	0,	0,	0,
4	110,	OLUYUK	Combination	0,83	3,16	0,	0,	0,
5	0,	DEAD	LinStatic	0,83	-3,16	0,	0,	0,
5	36,667	DEAD	LinStatic	0,83	-1,12	0,	0,	0,
5	73,333	DEAD	LinStatic	0,83	0,91	0,	0,	0,
5	110,	DEAD	LinStatic	0,83	2,95	0,	0,	0,
5	0,	G	LinStatic	0,	0,	0,	0,	0,
5	36,667	G	LinStatic	0,	0,	0,	0,	0,
5	73,333	G	LinStatic	0,	0,	0,	0,	0,
5	110,	G	LinStatic	0,	0,	0,	0,	0,
5	0,	Q1	LinStatic	0,	0,	-5,29	671,32	-460,49
5	36,667	Q1	LinStatic	0,	0,	-5,29	671,32	-266,58

Table: Element Forces - Frames, Part 1 of 2

Frame	Station cm	OutputCase	CaseType	P Kgf	V2 Kgf	V3 Kgf	T Kgf-cm	M2 Kgf-cm
5	73,333	Q1	LinStatic	0,	0,	-5,29	671,32	-72,67
5	110,	Q1	LinStatic	0,	0,	-5,29	671,32	121,24
5	0,	Q2	LinStatic	0,	0,	-0,75	696,36	-5,76
5	36,667	Q2	LinStatic	0,	0,	-0,75	696,36	21,63
5	73,333	Q2	LinStatic	0,	0,	-0,75	696,36	49,01
5	110,	Q2	LinStatic	0,	0,	-0,75	696,36	76,4
5	0,	Q3	LinStatic	0,	0,	4,24	470,58	559,2
5	36,667	Q3	LinStatic	0,	0,	4,24	470,58	403,75
5	73,333	Q3	LinStatic	0,	0,	4,24	470,58	248,29
5	110,	Q3	LinStatic	0,	0,	4,24	470,58	92,84
5	0,	OLUYUK	Combination	0,83	-3,16	0,	0,	0,
5	36,667	OLUYUK	Combination	0,83	-1,12	0,	0,	0,
5	73,333	OLUYUK	Combination	0,83	0,91	0,	0,	0,
5	110,	OLUYUK	Combination	0,83	2,95	0,	0,	0,
6	0,	DEAD	LinStatic	-1,29	-2,83	0,	0,	0,
6	27,5	DEAD	LinStatic	-1,29	-1,31	0,	0,	0,
6	55,	DEAD	LinStatic	-1,29	0,22	0,	0,	0,
6	55,	DEAD	LinStatic	-1,29	0,22	0,	0,	0,
6	82,5	DEAD	LinStatic	-1,29	1,74	0,	0,	0,
6	110,	DEAD	LinStatic	-1,29	3,27	0,	0,	0,
6	0,	G	LinStatic	0,	0,	0,	0,	0,
6	27,5	G	LinStatic	0,	0,	0,	0,	0,
6	55,	G	LinStatic	0,	0,	0,	0,	0,
6	55,	G	LinStatic	0,	0,	0,	0,	0,
6	82,5	G	LinStatic	0,	0,	0,	0,	0,
6	110,	G	LinStatic	0,	0,	0,	0,	0,
6	0,	Q1	LinStatic	0,	0,	23,2	1286,88	1059,18
6	27,5	Q1	LinStatic	0,	0,	23,2	1286,88	421,2
6	55,	Q1	LinStatic	0,	0,	23,2	1286,88	-216,78
6	55,	Q1	LinStatic	0,	0,	23,2	1286,88	-216,78
6	82,5	Q1	LinStatic	0,	0,	23,2	1286,88	-854,76
6	110,	Q1	LinStatic	0,	0,	23,2	1286,88	-1492,74
6	0,	Q2	LinStatic	0,	0,	-60,29	317,5	-407,44
6	27,5	Q2	LinStatic	0,	0,	-60,29	317,5	1250,52
6	55,	Q2	LinStatic	0,	0,	-60,29	317,5	2908,47
6	55,	Q2	LinStatic	0,	0,	64,71	317,5	2908,47
6	82,5	Q2	LinStatic	0,	0,	64,71	317,5	1128,93
6	110,	Q2	LinStatic	0,	0,	64,71	317,5	-650,62
6	0,	Q3	LinStatic	0,	0,	-23,76	-482,29	-594,41
6	27,5	Q3	LinStatic	0,	0,	-23,76	-482,29	58,99
6	55,	Q3	LinStatic	0,	0,	-23,76	-482,29	712,39
6	55,	Q3	LinStatic	0,	0,	-23,76	-482,29	712,39
6	82,5	Q3	LinStatic	0,	0,	-23,76	-482,29	1365,79
6	110,	Q3	LinStatic	0,	0,	-23,76	-482,29	2019,19
6	0,	OLUYUK	Combination	-1,29	-2,83	0,	0,	0,
6	27,5	OLUYUK	Combination	-1,29	-1,31	0,	0,	0,
6	55,	OLUYUK	Combination	-1,29	0,22	0,	0,	0,
6	55,	OLUYUK	Combination	-1,29	0,22	0,	0,	0,
6	82,5	OLUYUK	Combination	-1,29	1,74	0,	0,	0,
6	110,	OLUYUK	Combination	-1,29	3,27	0,	0,	0,
7	0,	DEAD	LinStatic	-1,29	-3,27	0,	0,	0,
7	36,667	DEAD	LinStatic	-1,29	-1,23	0,	0,	0,
7	73,333	DEAD	LinStatic	-1,29	0,8	0,	0,	0,
7	110,	DEAD	LinStatic	-1,29	2,83	0,	0,	0,

Table: Element Forces - Frames, Part 1 of 2

Frame	Station cm	OutputCase	CaseType	P Kgf	V2 Kgf	V3 Kgf	T Kgf-cm	M2 Kgf-cm
7	0,	G	LinStatic	0,	0,	0,	0,	0,
7	36,667	G	LinStatic	0,	0,	0,	0,	0,
7	73,333	G	LinStatic	0,	0,	0,	0,	0,
7	110,	G	LinStatic	0,	0,	0,	0,	0,
7	0,	Q1	LinStatic	0,	0,	-0,56	804,6	-526,45
7	36,667	Q1	LinStatic	0,	0,	-0,56	804,6	-505,89
7	73,333	Q1	LinStatic	0,	0,	-0,56	804,6	-485,33
7	110,	Q1	LinStatic	0,	0,	-0,56	804,6	-464,77
7	0,	Q2	LinStatic	0,	0,	7,05	765,15	219,38
7	36,667	Q2	LinStatic	0,	0,	7,05	765,15	-39,22
7	73,333	Q2	LinStatic	0,	0,	7,05	765,15	-297,81
7	110,	Q2	LinStatic	0,	0,	7,05	765,15	-556,41
7	0,	Q3	LinStatic	0,	0,	23,76	482,29	2019,19
7	36,667	Q3	LinStatic	0,	0,	23,76	482,29	1147,99
7	73,333	Q3	LinStatic	0,	0,	23,76	482,29	276,79
7	110,	Q3	LinStatic	0,	0,	23,76	482,29	-594,41
7	0,	OLUYUK	Combination	-1,29	-3,27	0,	0,	0,
7	36,667	OLUYUK	Combination	-1,29	-1,23	0,	0,	0,
7	73,333	OLUYUK	Combination	-1,29	0,8	0,	0,	0,
7	110,	OLUYUK	Combination	-1,29	2,83	0,	0,	0,

Table: Frame Section Assignments

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default
2	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default
3	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default
4	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default
5	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default
6	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default
7	Pipe	N.A.	Ø50 t:5	Ø50 t:5	Default

Table: Joint Displacements

Table: Joint Displacements

Joint	OutputCase	CaseType	U1 cm	U2 cm	U3 cm	R1 Radians	R2 Radians	R3 Radians
1	DEAD	LinStatic	0,	0,	0,	0,	0,	0,
1	G	LinStatic	0,	0,	0,	0,	0,	0,
1	Q1	LinStatic	0,	0,	0,	0,	0,	0,
1	Q2	LinStatic	0,	0,	0,	0,	0,	0,
1	Q3	LinStatic	0,	0,	0,	0,	0,	0,
1	OLUYUK	Combination	0,	0,	0,	0,	0,	0,
2	DEAD	LinStatic	9,363E-06	0,	-0,000053	0,	0,000012	0,
2	G	LinStatic	0,	0,	0,	0,	0,	0,
2	Q1	LinStatic	0,	0,837705	0,	-0,010651	0,	-0,00351
2	Q2	LinStatic	0,	0,619487	0,	-0,00822	0,	0,000986
2	Q3	LinStatic	0,	0,418175	0,	-0,005906	0,	0,00202
2	OLUYUK	Combination	9,363E-06	0,	-0,000053	0,	0,000012	0,
3	DEAD	LinStatic	0,	0,	0,	0,	0,	0,
3	G	LinStatic	0,	0,	0,	0,	0,	0,
3	Q1	LinStatic	0,	0,	0,	0,	0,	0,

Table: Joint Displacements

Joint	OutputCase	CaseType	U1 cm	U2 cm	U3 cm	R1 Radians	R2 Radians	R3 Radians
3	Q2	LinStatic	0,	0,	0,	0,	0,	0,
3	Q3	LinStatic	0,	0,	0,	0,	0,	0,
3	OLUYUK	Combination	0,	0,	0,	0,	0,	0,
4	DEAD	LinStatic	3,364E-18	0,	-0,000093	0,	3,994E-20	0,
4	G	LinStatic	0,	0,	0,	0,	0,	0,
4	Q1	LinStatic	0,	0,418175	0,	-0,005906	0,	-0,002896
4	Q2	LinStatic	0,	0,535929	0,	-0,007049	0,	-0,002388
4	Q3	LinStatic	0,	0,598125	0,	-0,007684	0,	-2,805E-18
4	OLUYUK	Combination	3,364E-18	0,	-0,000093	0,	3,994E-20	0,
5	DEAD	LinStatic	0,	0,	0,	0,	0,	0,
5	G	LinStatic	0,	0,	0,	0,	0,	0,
5	Q1	LinStatic	0,	0,	0,	0,	0,	0,
5	Q2	LinStatic	0,	0,	0,	0,	0,	0,
5	Q3	LinStatic	0,	0,	0,	0,	0,	0,
5	OLUYUK	Combination	0,	0,	0,	0,	0,	0,
6	DEAD	LinStatic	-9,363E-06	0,	-0,000053	0,	-0,000012	0,
6	G	LinStatic	0,	0,	0,	0,	0,	0,
6	Q1	LinStatic	0,	0,178594	0,	-0,00294	0,	-0,00149
6	Q2	LinStatic	0,	0,279058	0,	-0,004228	0,	-0,00191
6	Q3	LinStatic	0,	0,418175	0,	-0,005906	0,	-0,00202
6	OLUYUK	Combination	-9,363E-06	0,	-0,000053	0,	-0,000012	0,
7	DEAD	LinStatic	-6,035E-06	0,	-0,000038	0,	6,045E-06	0,
7	G	LinStatic	0,	0,	0,	0,	0,	0,
7	Q1	LinStatic	0,	0,272602	0,	-0,008506	0,	-0,001558
7	Q2	LinStatic	0,	0,196993	0,	-0,006319	0,	0,000235
7	Q3	LinStatic	0,	0,128672	0,	-0,004296	0,	0,000925
7	OLUYUK	Combination	-6,035E-06	0,	-0,000038	0,	6,045E-06	0,
8	DEAD	LinStatic	1,161E-18	0,	-0,000063	0,	4,437E-20	0,
8	G	LinStatic	0,	0,	0,	0,	0,	0,
8	Q1	LinStatic	0,	0,128672	0,	-0,004296	0,	-0,001114
8	Q2	LinStatic	0,	0,170908	0,	-0,005436	0,	-0,000785
8	Q3	LinStatic	0,	0,191807	0,	-0,006031	0,	-6,136E-19
8	OLUYUK	Combination	1,161E-18	0,	-0,000063	0,	4,437E-20	0,
9	DEAD	LinStatic	6,035E-06	0,	-0,000038	0,	-6,045E-06	0,
9	G	LinStatic	0,	0,	0,	0,	0,	0,
9	Q1	LinStatic	0,	0,047877	0,	-0,001821	0,	-0,000633
9	Q2	LinStatic	0,	0,08125	0,	-0,002868	0,	-0,000885
9	Q3	LinStatic	0,	0,128672	0,	-0,004296	0,	-0,000925
9	OLUYUK	Combination	6,035E-06	0,	-0,000038	0,	-6,045E-06	0,
10	DEAD	LinStatic	4,682E-06	0,	-0,000814	0,	-2,390E-06	0,
10	G	LinStatic	0,	0,	0,	0,	0,	0,
10	Q1	LinStatic	0,	0,619487	0,	-0,008279	0,	-0,004108
10	Q2	LinStatic	0,	0,647612	0,	-0,007634	0,	-0,000788
10	Q3	LinStatic	0,	0,535929	0,	-0,006795	0,	0,001937
10	OLUYUK	Combination	4,682E-06	0,	-0,000814	0,	-2,390E-06	0,

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
1	Yes	Yes	Yes	Yes	Yes	Yes
3	Yes	Yes	Yes	Yes	Yes	Yes

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
5	Yes	Yes	Yes	Yes	Yes	Yes

Table: Material Properties 03a - Steel Data, Part 1 of 2

Table: Material Properties 03a - Steel Data, Part 1 of 2

Material	Fy Kgf/cm2	Fu Kgf/cm2	EffFy Kgf/cm2	EffFu Kgf/cm2	SSCurveOpt	SSHysType	SHard	SMax
S235	2396,33	3670,98	2635,97	4038,08	Simple	Kinematic	0,015	0,11
S275	2804,22	4384,78	3084,64	4823,26	Simple	Kinematic	0,015	0,11
S355	3619,99	5200,55	3981,99	5720,61	Simple	Kinematic	0,015	0,11

Table: Material Properties 03a - Steel Data, Part 2 of 2

Table: Material Properties 03a - Steel Data, Part 2 of 2

Material	SRup	FinalSlope
S235	0,17	-0,1

Table: Steel Design 1 - Summary Data - AISC-ASD89, Part 1 of 2

Table: Steel Design 1 - Summary Data - AISC-ASD89, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1	Ø50 t:5	Column	No Messages	0,771802	PMM
2	Ø50 t:5	Column	No Messages	0,539138	PMM
3	Ø50 t:5	Column	No Messages	0,33308	PMM
4	Ø50 t:5	Beam	No Messages	0,049159	PMM
5	Ø50 t:5	Beam	No Messages	0,049159	PMM
6	Ø50 t:5	Beam	No Messages	0,253993	PMM
7	Ø50 t:5	Beam	No Messages	0,176459	PMM

Table: Steel Design 1 - Summary Data - AISC-ASD89, Part 2 of 2

Table: Steel Design 1 - Summary Data - AISC-ASD89, Part 2 of 2

Frame	Combo	Location cm	ErrMsg	WarnMsg
1	SBQ1	0,	No Messages	No Messages
2	SBQ3	0,	No Messages	No Messages
3	SBQ3	0,	No Messages	No Messages
4	SBQ3	110,	No Messages	No Messages
5	SBQ3	0,	No Messages	No Messages
6	SBQ2	55,	No Messages	No Messages
7	SBQ3	0,	No Messages	No Messages